

# TROLLEY CAR OPERATING INSTRUCTIONS



Your new RailKing Trolley Car is designed to bring excitement to someone new to model railroading or to add fun to an existing layout. The trolley's sturdy ABS plastic construction with all-metal wheels and gears are designed for years of operating fun.

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#### Compatibility

The trolley will operate on any traditional O-27 or larger O Gauge track system, including RealTrax. It is also compatible with any standard AC transformer (See page 10 for a complete list of compatible transformers and wiring instructions.).

#### Set Up and Operation

- Lubricate the trolley car as shown on page 4.
- Place the trolley car on the track and apply power to run.

Once power has been applied, the trolley car will immediately begin moving. The trolley will reverse direction when the Automatic Reversing Bumper Mechanism (ARBM) in its bumper is depressed. To do this, you may depress the bumper with your hand or run the car into a track bumper or another car. Interrupting the transformer throttle voltage will only affect the trolley's speed; it will not cause the unit to change directions.

If the trolley does not move when you apply power, the reversing switch may be between positions. Gently press in one of the bumpers. If the car still does not move, press in the bumper on the other end of the trolley.

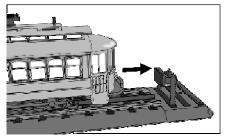


Fig 1: Trolley bumping into a bumper to reverse its direction

Exercise caution when running the trolley car into

a bumper or another car to change its direction. Running the trolley car at excessive speed into a bumper or another car could damage the reversing bumpers and thus disable the reversing feature.

#### **Lubricating the Trolley Car**

Before you run your trolley car, you **must** lubricate it to prevent squeaking and premature wear. Use a light household or hobby oil to lubricate the gears, truck block bronze bushings, and pickup rollers. Apply a small drop of oil (a pinpoint oiler will help place the right amount of oil where you need it) to each of the points indicated below.

The trolley car's internal gearing in the power trucks has been greased at the factory and should not need additional grease until after 50 hours of operation or one year, whichever comes first. To insert grease into the gear box inside the locomotive chassis, do the following:

- 1. Remove the body from the frame by unscrewing the four body mounting screws as shown below.
- 2. Once the shell is removed, open the gear box by unscrewing the two screws on the plate located in front of the motor.
- 3. Use a grease tube dispenser to apply a small amount of grease.

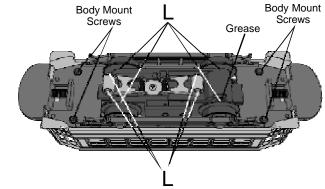


Figure 2: Lubrication points of Trolley.

#### Lamp Replacement

The trolley uses two LEDs for directional headlights and two incandescent bulbs for interior lights. To replace the headlights or interior lights remove the four screws that attach the body to the frame, shown in figure 2. Lift the body from the frame and replace the bulbs.

Note: Although the body shell can be rotated 180 degrees and still be fitted to the frame, the directional lights will only work properly in the original orientation. Before removing the body shell, mark an indication on which ends of the trolley frame and body shell match, so that the shell can be replaced properly.

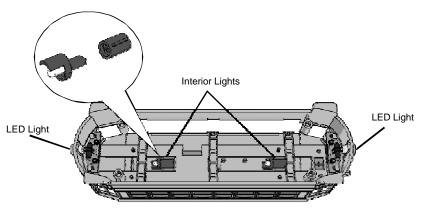


Figure 3: The location and the removal of the bulbs in the trolley.

#### **Operating Overhead Trolley Pole**

The Trolley is equipped with a set of third rail pickup rollers for supplying voltage to the motor and lights. The trolley pole as delivered is not an operating trolley pole. However, it is possible to reroute the wire from the pickup rollers to the trolley pole inside the body shell so you can obtain power prototypically from an overhead catenary wire. Please contact: M.T.H. Service (phone: 410-381-2580; fax:410-423-0009; e-mail: service@mth-railking.com; mail: 7020 Columbia Gateway Drive, Columbia, MD 21046-1532) for instructions on making this adjustment.

#### **Exploded Parts View**

The chart and diagram on the next few pages should be referenced when requesting replacement parts for your RailKing® locomotive. Parts can be ordered directly from MTH Electric Trains, 7020 Columbia Gateway Drive, Columbia, MD 21046-1532.

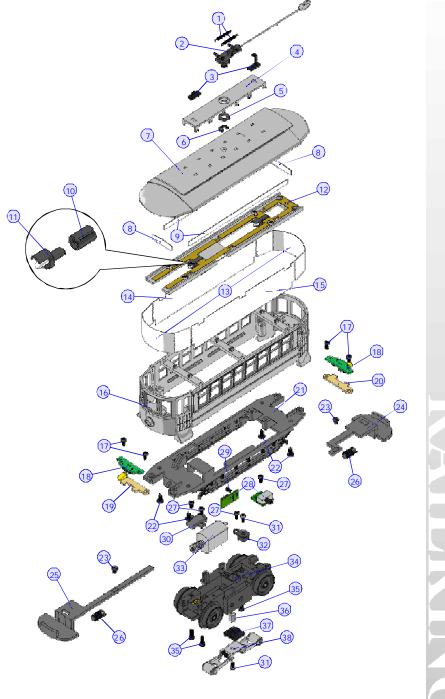
#### Trolley

#### Parts

Nam	ne and Number	Part #
1.)	Spring	IE-0000038
,	( 2.0X17.0mm )( w/ a hook on each end )	
2.)	Trolley pole ( complete )	FF-3200001
3.)	Bracket	IH-0000093
3.)		IH-0000093
	( pole hook )( black )	
4.)	Cover ( silver )	FF-3200021
	( New York City Transit )( # 6688 )	
4.)	Cover ( red )	FF-3200022
	( Merry Christmas )( # 2000 )	
5.)	Washer	ID-0000009
,	( 4.5X10.0X0.5mm )	
6.)	E-clip	IF-0000009
0.)		11 -00000009
	( 3.5X9.0X0.5mm )	FF 0000000
7.)	Roof ( silver )	FF-3200023
	( New York City Transit )( # 6688 )	
7.)	Roof ( red )	FF-3200024
	( Merry Christmas )( # 2000 )	
8.)	Lens (short)	FA-3200004
9.)	Lens (long)	FA-3200005
	Control	
10.)		CH-0000018
11.)	Bulb ( w/ base )( gray )	CG-0000018
	( base has a overhang over the bulb )	
12.)	Bulb guide	CH-0000019
	( 172.0mm long )	
13)	Lens ( end windows )	FA-3200006
	Lens ( window )( right )	FA-3200007
14.)		1 A-3200007
451	( man-front window, woman-rear window )	F4 0000000
15.)	Lens ( window )( left )	FA-3200008
	( woman-front window, man-rear window )	
16.)	Shell ( red )	FF-3200025
	( New York City Transit )( # 6688 )	
16.)		FF-3200026
,	( Merry Christmas )( # 2000 )	
171	Screw	IA-0000072
17.)		IA-0000072
	( M3X8.0mm )( roundhead )( self-drilling )	
	Light board ( w/ L.E.D. )	CE-0000003
19.)	Contact board ( front )	BH-0000024
20.)	Contact board ( rear )	BH-0000025
21.)	Chassis ( black )	GB-3200001
22.)		IA-0000013
22.)	( M3X10.0mm)( self-drilling )( washer head	
221		IA-0000123
23.)		
	(M2.4X3.0mm)(slotted head) (large hea	
24.)	Reverse mechanism arm	FF-3200008
	( rear )( short )	
251	Reverse mechanism arm	FF-3200009
20.,	( front )( long )	11 0200007
241		IF-0000039
20.)	Spring	IE-0000039
	( 5.0X16.0mm )( w/ 0.2mm thick wire )	
27.)	Screw	IA-0000003
	( 4/40X6.0mm )( roundhead )	
28.)	Boards	BB-0000017
,	( switch and bridge rectifier )	
29.)	Screw	IA-000058
27.)		14-0000008
	(M2X4.0mm)(roundhead)	
30.)	Gear box cover	BI-0000032
31.)	Screw	IA-0000015
	( M3X6.0mm )( roundhead )	

Nam	ne and Number	Part #
	Insulator ( pick-up )( top ) Motor	BD-0000047 BE-0000042
	( FK-130SH )( w/ $6.8$ X11.0mm worm gear ) Truck ( powered )( 2 axle ) Screw	DA-3200003 IA-0000103
	( 6/32X12.0mm )( roundhead ) Nut ( 2.5X5.0X7.0mm ) Insulator ( pick-up )( bottom ) Pick-up	IC-0000008 BD-0000001 BD-0000049

\*Requires Exchange



7 Trolley Operating Instructions

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## TRANSFORMER COMPATIBILITY AND WIRING CHART

The chart below lists many of the compatible transformers and how the terminals on these compatible transformers should be attached to your layout.

Transformer Model	Center Rail	Outside Rail	Min/Max. Voltage	Power Rating	Transformer Type
Lionel 1032	U	Α	5-16v	90-Watt	Standard
Lionel 1032M	U	Α	5-16v	90-Watt	Standard
Lionel 1033	U	Α	5-16v	90-Watt	Standard
Lionel 1043	U	Α	5-16v	90-Watt	Standard
Lionel 1043M	U	Α	5-16v	90-Watt	Standard
Lionel 1044	U	Α	5-16v	90-Watt	Standard
Lionel 1053	U	Α	8-17v	60-Watt	Standard
Lionel 1063	U	Α	8-17v	60-Watt	Standard
All-Trol	Left Terminal	Right Terminal	0-24v	300-Watt	Electronic
Cab-1/Powerma ster	А	U	0-18v	135V.A.	Electronic
Dallee Hostler	Left Terminal	Right Terminal			Electronic
Lionel LW	Α	U	8-18v	75-Watt	Standard
Lionel KW	A or B	U	6-20v	190-Watt	Standard
MRC Tech II	Left Terminal	2 <sup>rd</sup> From Left	0-15v	40V.A.	Electronic
Lionel MW	OutsideTrack Terminal	Inside Track Terminal	5-16v	50V.A.	Electronic
R.O.W.	Red Terminal	Black Terminal	0-24v	384-Watt	Standard
Lionel RS-1	Red Terminal	Black Terminal	0-18v	50V.A.	Electronic
LionelRW	U	Α	9-19v	110-Watt	Standard
Lionel SW	U	Α	Unknown	130-Watt	Standard
Lionel TW	U	Α	8-18v	175-Watt	Standard
Lionel ZW	A,B,C or D	U	8-20v	275-Watt	Standard
Lionel Trainmaster	Red Terminal	Black Terminal	0-18v	135-Watt	Electronic
MTH Z-500	Red Terminal	Black Terminal	0-18v	50-Watt	Electronic
MTH Z-750	Red Terminal	Black Terminal	0-21v	75-Watt	Electronic
MTH Z-4000	Red Terminal	Black Terminal	0-22v	390-Watt	Electronic

# WARNING: When using electrical products, basic safety precautions should be followed including the following:

**CAUTION**: Electrically Operated Product:

Not recommended for children under 10 years of age. M.T.H. recommends adult supervision with children ages 10 - 16. As with all electric products, precautions should be observed during handling and use to reduce the risk of electric shock.

WARNING: When using electrical products, basic safety precautions should be followed including the following:

- Read this manual thoroughly before using this device.
- M.T.H. recommends that all users and persons supervising use examine the hobby transformer periodically for conditions that may result in the risk of fire, electric shock, or injury to persons, such as damage to the primary cord, plug blades, housing, output jacks or other parts. In the event such conditions exist, the transformer should not be used until properly repaired.
- As with all electrical appliances, this product should not be left in operation when unattended.

#### **Service & Warranty Information**

#### How to Get Service Under the Terms of the Limited One-Year Warranty

When you suspect an item is defective, please check the operator's manual for standard operation and trouble-shooting techniques that may correct the problem. Additional information may be found on the M.T.H. Website. Should you still require service, follow the instructions below to obtain warranty service.

First, e-mail, write, call or fax a M.T.H. Authorized Service Center (ASC) in your area to obtain Repair Authorization. You can find the list of ASCs on the M.T.H. Website, www.mth-railking.com. Authorized Service Centers are required to make warranty repairs on items sold *only* from that store; all other repairs may-- or may not be done at the store's own discretion. If you did not purchase the item directly from the ASC, you will need to select a National Authorized Service Center (NASC). These centers are compensated by M.T.H. to perform warranty service for any customer whose repair qualifies for warranty service. A list of NASC retailers can be located on the M.T.H. Website or by calling 1-888-640-3700. Should the warranty no longer apply, you may choose either an ASC or NASC retailer to service your M.T.H. Product. A reasonable service fee will be charged.

CAUTION: Make sure the product is packed in its original factory packaging including its foam and plastic wrapping material to prevent damage to the merchandise. There is no need to return the entire set if only one of the components is in need of repair unless otherwise instructed by the Service Center. The shipment must be prepaid and we recommend that it be insured. A cover letter including your name, address, daytime phone number, e-mail address (if available), Return Authorization number (if required by the service center, a copy of your sales receipt and a full description of the problem must be included to facilitate the repairs. Please include the description regardless of whether you discussed the problem with a service technician when contacting the Service Center for your Return Authorization.

Please make sure you have followed the instructions carefully before returning any merchandise for service. Authorized M.T.H. Service Centers are independently owned and operated and are not agents or representatives of M.T.H. Electric Trains. M.T.H. assumes no responsibility, financial or otherwise, for material left in their possession, or work done, by privately owned M.T.H. Authorized Service Centers.

If you need assistance at any time email MTH Service at service@mth-railking.com, or call 410 381-2580.

#### **Limited One-Year Warranty**

All M.T.H. products purchased from an Authorized M.T.H. Train Merchant are covered by this warranty.

See our website at <a href="https://www.mth-railking.com">www.mth-railking.com</a> or call 1-888-640-3700 to identify an Authorized M.T.H. Train Merchant near you.

M.T.H. products are warrantied for one year from the date of purchase against defects in material or workmanship, excluding wear items such as light bulbs, pick-up rollers, batteries, smoke unit wicks, and traction tires. We will repair or replace (at our option) the defective part without charge for the parts or labor, if the item is returned to an M.T.H. Authorized Service Center (ASC) or M.T.H. National Authorized Service Center (NASC) within one year of the original date of purchase. This warranty does not cover damages caused by improper care, handling, or use. Transportation costs incurred by the customer are not covered under this warranty.

Items sent for repair must be accompanied by a return authorization number, a description of the problem, and a copy of the original sales receipt from an Authorized M.T.H. Train Merchant, which gives the date of purchase. If you are sending this product to an Authorized Service Center, contact that Center for their return authorization.

This warranty gives you specific legal rights, and you may have other rights that vary from state to state. Specific questions regarding the warranty may be forwarded to M.T.H. directly.

Service Department M.T.H. Electric Trains 7020 Columbia Gateway Drive .Columbia MD 21046-1532



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